**VOICE CONTROLLED WHEEL CHAIR FOR PHYSICALLY DISABLED PERSON**

A voice-controlled wheelchair for physically disabled individuals is an innovative solution that offers increased independence and ease of mobility. It uses speech recognition technology to allow users to control the movement of the wheelchair with their voice. Here’s a breakdown of how it works and the benefits it provides:

**Key Features of a Voice-Controlled Wheelchair:**

1. **Voice Recognition**: The wheelchair is equipped with a microphone and speech recognition software that can understand commands such as "go forward," "turn left," "stop," or "move backward."
2. **Sensors and Motors**: The wheelchair is fitted with sensors that can detect the surrounding environment (e.g., obstacles, inclines) and motors that can move the chair according to the commands.
3. **Customizable Commands**: Users can often customize voice commands to match their specific needs or preferences. For example, commands like "speed up" or "slow down" can be added.
4. **Safety Features**: To prevent accidents, the wheelchair may have built-in safety mechanisms, such as emergency stop commands or automatic obstacle detection to prevent collisions.
5. **Remote Control Options**: Many systems come with a backup remote control option in case the voice recognition system is temporarily unavailable or needs calibration.

**Benefits:**

1. **Increased Independence**: This technology empowers individuals who have limited physical movement to control their wheelchair without needing to rely on someone else for navigation.
2. **Accessibility**: It opens up new possibilities for people who may have difficulty using traditional joystick-based wheelchairs due to limited arm or hand mobility.

**Examples of Voice-Controlled Wheelchairs:**

1. **Whill Model Ci**: This is a sleek, high-tech powered wheelchair that can integrate with mobile apps and features some voice-control capabilities.
2. **JACO Robotic Arm**: While primarily an arm that can be attached to a wheelchair, it can be controlled through voice commands to assist in handling objects, adding another layer of independence for the user.
3. **Independence Drive**: A company that specializes in advanced technology for mobility, including voice-assisted control options for wheelchairs.